



JFW

ATTORNEY DOCKET NO. 22118.0002U2
PATENT
Page 1 of 2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
James E. Skinner) Confirmation No. 2987
Application No.:10/767,861) Group Art Unit: 3736
Filed: January 29, 2004)
For: "IMPROVED METHOD AND SYSTEM FOR DETECTING)
AND/OR PREDICTING CEREBRAL ANOMALIES)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.
Suite 1000
999 Peachtree Street
Atlanta, GA 30309

July 28, 2004

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying Form PTO 1449 is a listing of documents known to Applicants and/or their attorneys. All of the documents cited were cited by or submitted to the Patent Office in Application No. 10/353,849, filed January 29, 2003, to which the present application claims priority. Pursuant to 37 C.F.R. § 1.98(d), copies of these documents are not enclosed.

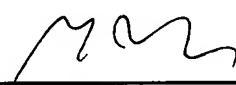
ATTORNEY DOCKET NO. 22118.0002U2
APPLICATION NO. 10/767,861
Page 2 of 2

This Information Disclosure Statement is believed to be filed in a timely manner pursuant to 37 C.F.R. § 1.97(b)(3), in that a first Office Action on the merits of the present patent application has not yet been mailed to Applicants.

No fee is believed due; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.

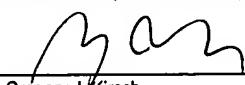


Gregory J. Kirsch
Registration No. 35,572

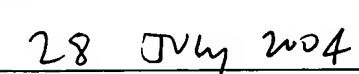
NEEDLE & ROSENBERG, P.C.
Customer No. 23859
678/420-9300

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

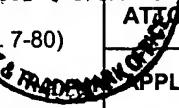


Gregory J. Kirsch



Date

JUL 30 2004



Modified Supplemental Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 7-80) PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NO.: 22118.0002U2	APPLICATION NO. 10/767,861
		APPLICANT: James E. Skinner	
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		FILING DATE: January 29, 2004	GROUP: 3736

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	5,720,294	02/24/98	Skinner			
	A2	5,709,214	01/20/98	Skinner			

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	A3	"Low-Dimensional Chaos In Event-Related Brain Potentials," by Molnar et al., <i>Internat. J. of Neuroscience</i> , 1992, Vol. 66, pp 263-276.
	A4	"Is The Heart Preadapted To Hypoxia? Evidence From Fractal Dynamics Of Heartbeat Interval Fluctuations At High Altitude," Meyer et al., <i>Integr. Physiol. Behav. Sci.</i> , 1998, Vol. 33, pp 9-40.
	A5	"Cerebral Autonomic Regulation Underlying Cardiovascular Disease," Skinner, James E., <i>Primer on the Autonomic Nervous System</i> , 1996, Chapt. 29, pp 153-156.
	A6	"Introducing Chaos," Wolf, Stewart, <i>Integrative Physiological and Behavioral Science</i> , July - Sept. 1994, Vol. 29, No. 3, pp 203-204.
	A7	"Estimating Fractal Dimension," Theiler, James, August 30, 1989.
	A8	Takens, F., "On The Numerical Determination Of The Dimension Of An Attractor, Dynamical Systems And Bifurcations," Groninger, 1984, Vol. 1125 of <i>Lecture Notes In Mathematics</i> , Springer-Verlag, Berlin, 1985.
	A9	"Lasers and brains: complex systems with low-dimensional attractors," <i>Dimensions and Entropies in Chaotic Systems</i> , 1985, pp 231-240.
	A10	"Bohm's alternative to quantum mechanics," Albert, D.Z., <i>Scientific American</i> , May, 1994, pp 58-67.
	A11	"Strange attractors in the dynamics of brain activity," Babloyantz, A., <i>Complex Systems – operational approaches in neurobiology, physics, and computers</i> , 1985, pp 116-122.
	A12	"Cognitive psychophysiology and human information processing," Donchin et al., <i>Psychophysiology: systems, processes and applications</i> , 1986, pp 244-267.
	A13	"The Dimension of Chaotic Attractors," Farmer et al., <i>Physica D</i> , Vol. 7D, Nos. 1-3, May, 1983, pp 153-180.
	A14	"Simulation of Chaotic EEG Patterns with a Dynamic Model of the Olfactory System," Freeman, <i>Biological Cybernetics</i> , Vol. 56, 1987, pp. 139-150.
	A15	"Characterization of strange attractors," Grassberger et al., <i>Physical Review Letters</i> , 1983, Vol. 50, No. 5, pp 346-349.

	A16	"Direct Test for Determinism in a Time Series," Kaplan et al., <i>Physical Review Letters</i> , 1992, Vol. 68, No. 4, pp 427-430.
	A17	"Dimensional Analysis of Nonlinear Oscillations in Brain, Heart, and Muscle," Mayer-Kress et al., <i>Mathematical Biosciences</i> , 1988, 90, pp 155-182.
	A18	"Localized Measures for Non-Stationary Time-Series of Physiological Data," Mayer-Kress et al., <i>Integrative Physiological and Behavioral Science</i> , July-Sept 1994, Vol. 29, No. 3, pp 205-210.
	A19	"Testing the Determinism of EEG and MEG," Mühlnickel et al., <i>Integrative Physiological and Behavioral Science</i> , Vol. 29, No. 3, July-Sept 1994, pp 262-269.
	A20	"Geometry from a Time Series," Packard et al., 1980, <i>The American Physical Society</i> , pp 712-716.
	A21	"Long-range correlations in nucleotide sequences," Peng et al., <i>Nature</i> , 1992, Vol. 356, pp 168-170.
	A22	"Approximate entropy as a measure of system complexity," Pincus, <i>Proc. Natl. Acad. Sci.</i> , Vol. 88, Mar 1991, pp 2297-2301.
	A23	"Dynamics of brain electrical activity," Rapp et al., <i>Brain Topography</i> , 1989, Vol. 2, pp 99-118.
	A24	"A Guide to Dynamical Analysis," Rapp, <i>Integrative Physiological and Behavioral Science</i> , 1994, Vol. 29, No. 3, pp 311-327.
	A25	"Reconstruction expansion as a geometry-based framework for choosing proper delay times," Rosenstein et al., <i>Physica D</i> , 1994, Vol. 73, pp 82-98.
	A26	"Chaos in Physiology," Rossler et al., <i>Integrative Physiological and Behavioral Science</i> , July-Sept 1994, Vol. 29, No. 3, pp 328-333.
	A27	"Discriminating Deterministic versus Stochastic Dynamics in Neuronal Activity," Schiff et al., <i>Integrative Physiological and Behavioral Science</i> , July-Sept 1994, Vol. 29, No. 3, pp 246-261.
	A28	"How brains make chaos in order to make sense of the world," Skarda et al., <i>Cambridge University Press</i> (1987), pp 161-195.
	A29	"Correlation Dimension of Heartbeat Intervals Is Reduced in Conscious Pigs by Myocardial Ischemia," Skinner et al., <i>Circulation Research</i> (1991), Vol. 68, No. 4, pp 966-976.
	A30	"On the Numerical Determination of the Dimension of an Attractor," Takens, 1984, <i>Lecture Notes in Mathematics</i> , 1125, pp 99-106.
	A31	"Spurious dimension from correlation algorithms applied to limited time-series data," Theiler, <i>Physical Review A</i> , 1986, Vol. 34, No. 3, pp 2427-2432.
	A32	"Testing for nonlinearity in time series: the method of surrogate data," Theiler et al., <i>Physica D</i> , Vol. 58, pp 77-94.
	A33	"Anatomical and Physiological Substrates of Event-Related Potentials," Wood et al., <i>Neurophysiology and Methodology</i> , 1984, pp 681-721.
	A34	"Cryoblockade in limbic brain (amygdale) delays or prevents ventricular fibrillation following coronary artery occlusion in psychologically stressed pigs," Skinner et al., <i>Circ. Res.</i> , Vol. 70, pp 600-606, 1992.
	A35	"Low-dimensional chaos maps learning in a model neuropil (olfactory bulb)," Skinner et al., <i>Integrative Physiological and Behavioral Science</i> , Oct-Dec 1992, Vol. 27, No. 4, pp 304-322.
	A36	"Chaotic brain activity," Elbert et al., <i>Electroencephalogr Clin Neurophysiol Suppl</i> , 1995, Vol. 44, pp 441-449.
	A37	"Is the Heart Preadapted to Hypoxia? Evidence from Fractal Dynamics of Heartbeat Interval Fluctuations at High Altitude (5,050 m)," Meyer et al., <i>Integrated Physiological and Behavioral Science</i> , Jan-Mar 1998, Vol. 33, No. 1, pp 9-40.

	A38	"Stability of Heartbeat Interval Distributions in Chronic High Altitude Hypoxia," Meyer et al., <i>Integrated Physiological and Behavioral Science</i> , Oct-Dec 1998, Vol. 33, No. 4, pp 344-362.
	A39	"Event-related dimensional reductions of the primary auditory cortex of the conscious cat are revealed by new techniques for enhancing the non-linear dimensional algorithms", Skinner et al., <i>International Journal of Psychophysiology</i> , 1999, pp 21-35.
	A40	"Nonlinear dynamics of heart rate variability during experimental hemorrhage in ketamine-anesthetized rats," Skinner et al., <i>American J Physiol Heart Circ Physiol</i> , 2000, 297, pp 1669-1678.
	A41	"The role of the thalamic reticular neurons in alpha- and gamma-oscillations in neocortex: a mechanism for selective perception and stimulus binding," Skinner et al., <i>Acta Neurobiol. Exp.</i> , 2000, 60: pp 123-142.
	A42	"Response Cooperativity": A Sign of a Nonlinear Neocortical Mechanism for Stimulus-Binding During Classical Conditioning in the Act, Skinner et al., <i>Nonlinear Phenomena in Biological and Physical Sciences</i> , Indian National Science Academy, pp 224-248 (2000)
	A43	"Brain Involvement in Cardiovascular Disorders," Skinner, <i>Behavioral Medicine in Cardiovascular Disorders</i> , 1988, pp 229-253.
	A44	"The Chaotic Correlation Dimension of the Heartbeat is Reduced by Ischemia," Skinner et al., <i>Biotech USA, Proceedings of the 6th annual industry conference and exhibition</i> , Oct 2-4, 1989, San Francisco, pp 425-434.
	A45	"Chaotic Attractors in a Model of Neocortex: Dimensionalities of Olfactory Bulb Surface Potentials Are Spatially Uniform and Event Related," Skinner et al., <i>Springer Series in Brain Dynamics</i> 2, 1989, pp 158-173.
	A46	"Chaos in the Heart: Implications for Clinical Cardiology," Skinner et al., <i>Bio/Technology</i> , Nov. 1990, Vol. 8, pp 1018-1024.
	A47	"Brain Control of Cardiovascular Dynamics," Skinner, <i>Event-Related Brain Research</i> , 1991, pp 270-283.
	A48	"Correlation Dimension of Heartbeat Intervals Is Reduced in Conscious Pigs by Myocardial Ischemia," Skinner et al., <i>Circulation Research</i> , Vol. 68, No. 4, April 1991, pp 966-976.
	A49	"Neurocardiology Shows that the Central, Not Peripheral, Action of Propranolol Reduces Mortality Following Acute Coronary Occlusion in the Conscious Pig," Skinner, <i>Integrative Physiological and Behavioral Science</i> , Apr-Jun 1991, Vol. 26, No. 2, pp 85-97.
	A50	"Correlation Dimension Changes of the EEG During the Wakefulness-Sleep Cycle," Molner et al., <i>Acta Biochim. Biophys. Hung.</i> 26 (1-4), 1991/92, pp. 121-125.
	A51	"Application of Chaos Theory to Biology and Medicine," Mitra, <i>Integrative Physiological and Behavioral Science</i> , Jan-Mar 1992, Vol. 27, No. 1, pp 39-53.
	A52	"Low-Dimensional Chaos Maps Learning in a Model Neuropil (Olfactory Bulb)," Mitra et al., <i>Integrative Physiological and Behavioral Science</i> , Oct-Dec 1992, Vol. 27, No. 4, pp 304-322.
	A53	"A reduction in the correlation dimension of heartbeat intervals precedes imminent ventricular fibrillation in human subjects," Skinner et al., <i>American Heart Journal</i> , 1993, Vol. 125, No. 3, pp 731-743.
	A54	"Neurocardiology Brain Mechanisms Underlying Fatal Cardiac Arrhythmias," Skinner, <i>Neurocardiology</i> , Vol. 11, No. 2, May 1993, pp 325-351.
	A55	"The Point Correlation Dimension of R-R Intervals Predicts Sudden Cardiac Death Among High-Risk Patients," Vybiral et al., <i>Computers In Cardiology</i> , 1993, IEEE Computer Society Press, pp 257-260.
	A56	"Forebrain Regulation of Cardiac Function Spectral and Dimensional Analysis of RR and QT Intervals," Negoescu et al., <i>Integrative Physiological and Behavioral Science</i> , Oct-Dec 1993, Vol. 28, No. 4, pp 331-342.

	A57	"Higher Cerebral Regulation of Cardiovascular and Respiratory Functions," Skinner et al., <i>Principles and Practice of Sleep Medicine</i> , Chapter 18, pp 231-251, 2d Ed. 1993.
	A58	"Chaos and Physiology: Deterministic Chaos in Excitable Cell Assemblies," Elbert et al., <i>The American Physiological Society</i> , Vol. 74, No. 1, Jan 1994, pp 1-47.
	A59	"Neurocardiology: How Stress Produces Fatal Cardiac Arrhythmias," Skinner, 1994, pp 195-209.
	A60	"The Point Correlation Dimension: Performance with Nonstationary Surrogate Data and Noise," Skinner et al., <i>Integrative Physiological and Behavioral Science</i> , July-Sep 1994, Vol. 29, No. 3, pp 217-234.
	A61	"Low-dimensional Chaos in Biological Systems," Skinner, <i>Bio/Technology</i> , Vol. 12, June 1994, pp 596-600.
	A62	"What Have We Learned and Where Are We Going?," (Postscript), <i>Integrative Physiological and Behavioral Science</i> , July-Sep 1994, Vol. 29, No. 3, pp 234-237.
	A63	"The Role of the Central Nervous System in Sudden Cardiac Death: Heartbeat Dynamics in Conscious Pigs during Coronary Occlusion, Psychologic Stress and Intracerebral Propranolol," Skinner, <i>Integrative Physiological and Behavioral Science</i> , Oct-Dec 1994, Vol. 29, No. 4, pp 355-361.
	A64	"Correlation dimension changes accompanying the occurrence of the mismatch negativity and the P3 event-related potential component," Molnar et al., <i>Electroencephalography & Clinical Neurophysiology</i> , 1995, pp 118-126.
	A65	"Application of Chaos Theory to a Model Biological System: Evidence of Self-Organization in the Intrinsic Cardiac Nervous System," Skinner et al., <i>Integrative Physiological and Behavioral Science</i> , Apr-June 1996, Vol. 31, No. 2, pp 122-146.
	A66	"Heart Rate Variability in the Human Transplanted Heart: Nonlinear Dynamics and QT vs RR-QT Alterations during Exercise Suggest a Return of Neurocardiac Regulation in Long-term Recovery," Meyer et al., <i>Integrative Physiological and Behavioral Science</i> , Oct-Dec 1996, Vol. 31, No. 4, pp 289-305.
	A67	"Dynamical Analysis of Heartbeat Interval Time Series After Cardiac Transplantation," Meyer et al. ,Fractals in Biology and Medicine (1997), pp 139-151.
	A68	"Low-Dimensional Chaos in Large Conductance Ca-Activated K-Channel Gating Kinetics," Meyer et al., Fractals in Biology and Medicine (1997), pp 152-164.
	A69	"New Nonlinear Algorithms for Analysis of Heart Rate Variability: Low-Dimensional Chaos Predicts Lethal Arrhythmias," Nonlinear Analysis of Physiological Data, Skinner et al., 1998, pp 129-166.
	A70	"Low-dimensional Chaos in a Simple Biological Model of Neocortex: Implications for Cardiovascular and Cognitive Disorders," Skinner et al., <i>An International Perspective on Self-regulation and Health</i> , 1989, pp 1-29, 1991, pp 95-117.
EXAMINER:		DATE CONSIDERED:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		